

IntraSpection™

Personality Module

3Com® SuperStack™ II Switch 1000

User's Manual

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Preface

About This Manual

This manual introduces the IntraSpection Personality Module for the following device:

- ❑ The 3Com SuperStack II Switch 1000

The manual defines a Personality Module and explains how to install and use the SuperStack II Switch 1000 Personality Module.

- ▲ **Important:** For additional information on using IntraSpection, refer to the IntraSpection User's Manual.

Chapter Contents

This manual is divided into the following chapters:

- ❑ Chapter 1, "Introduction," defines an IntraSpection Personality Module and describes the components of the SuperStack II Switch 1000 Personality Module.
- ❑ Chapter 2, "Installation" explains how to install the SuperStack II Switch 1000 Personality Module.
- ❑ Chapter 3, "Accessing the Device," explains how to access the SuperStack II Switch 1000 via IntraSpection.
- ❑ Chapter 4, "Management," explains how to perform some basic management functions.
- ❑ Chapter 5, "VLAN," provides an overview of VLAN and explains how use it with the SuperStack II Switch 1000 Personality Module.
- ❑ Chapter 6, "Menus," is a reference chapter that describes the Personality Module's management menus.

Document Conventions

This manual uses the following conventions to convey instructions and information:

- ❑ Commands and key words are in **boldface** font.
- △ **Note:** Noteworthy information, which contains helpful suggestions or references to other sections in the manual, is in this format.
- ▲ **Important:** Significant information that calls attention to important features or instructions is in this format.

Audience

This manual uses terms and concepts associated with Ethernet networking and switches; it is recommended that the user of this manual be familiar with local area networking and Ethernet switches.

This manual also assumes familiarity with IntraSpecation Web-based network management.

Introduction

IntraSpection Personality Modules

A Personality Module is a “plug-in” to the IntraSpection system that allows for expanded management of an SNMP (Simple Network Management Protocol) device by specifically addressing the device’s proprietary information (the “Private MIB”).

Management capabilities are accessed via the Personality Module’s Device Page. See Figure 1-1.

SuperStack II Switch 1000 Personality Module

The SuperStack II Switch 1000 Personality Module allows for expanded management of a 3Com SuperStack II Switch 1000.

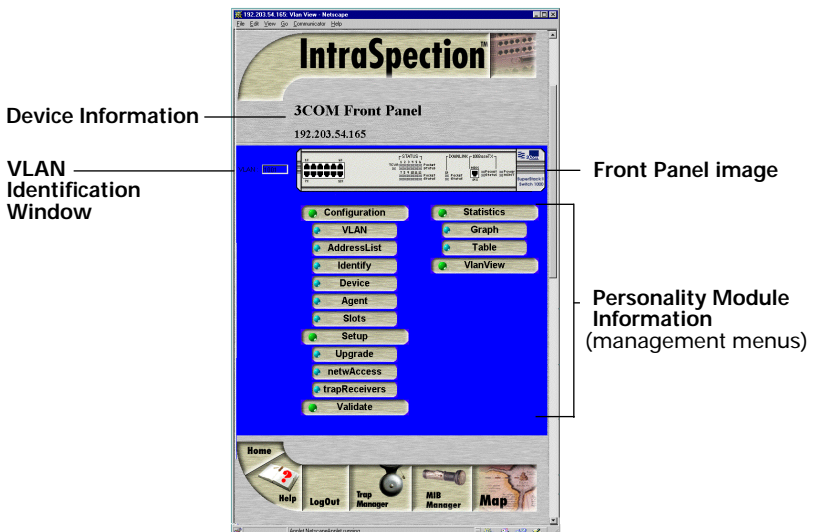


Figure 1-1 SuperStack II Switch 1000 Device Page

Management Options

The SuperStack II Switch 1000 Personality Module supports the following management options:

- ☐ VLAN — up to 16 groups
- ☐ Port address table
- ☐ Device identification information
- ☐ General device information
- ☐ SNMP agent information
- ☐ Slot (group) configuration information
- ☐ Software upgrades
- ☐ Network access configuration
- ☐ Trap receiver management
- ☐ Table statistics at the device, VLAN, and port levels
- ☐ Graph statistics at the device, VLAN, and port levels

See Chapter 4, “Management,” for information on performing some basic management functions.

See Chapter 5, “VLAN,” for information on using VLAN with the SuperStack II Switch 1000.

See Chapter 6, “Menus,” for a complete description of each management menu and its contents.

System Requirements

Server

- ☐ IntraSpecation version 1.01.
- ☐ PC with 80486 or faster microprocessor.
- ☐ 48MB RAM.
- ☐ 100MB free disk space.
- ☐ Windows NT™ 3.51 or higher or Windows NT 4.0 (recommended).
- ☐ Web server that supports Common Gateway Interface (CGI) 1.1 (such as Netscape FastTrack Server™, Microsoft IIS, NCSA HTTP, etc.).
- ☐ Any database management system that supports ODBC (Open Database Connectivity), such as Microsoft Access™, Oracle™, or Microsoft SQL Server.

Client

- ☐ Any Windows™, Windows NT, Macintosh™ or UNIX® workstation.
- ☐ Any World Wide Web browser with Java™ and JavaScript support (such as Netscape Navigator® [version 3.0 required, 3.01 recommended] or Microsoft Internet Explorer™).
- ▲ Important:** To access and use the Personality Module's **VLANView** menu, you must use **Netscape Communicator™ version 4.0**.

2

Installation

This chapter explains how to install the SuperStack II Switch 1000 Personality Module.

Installing a Personality Module

- ▲ **Important:** The Personality Module is installed on the computer where the IntraSpection Application Server is installed.

Before installing the Personality Module, make sure that IntraSpection (websuite.exe) is NOT running on the computer.

- 1 Insert the Personality Module CD into the computer where the IntraSpection Application Server is installed.
- 2 Open the CD to display its contents.
- 3 Double-click the **LS1000.exe** file.
- 4 Click **Yes** at the “IntraSpection Personality Module for LinkSwitch 1000” dialog box.
The “IntraSpection Personality Module for the LinkSwitch 1000” window appears.
- 5 Click **Finish** to continue.
The Personality Module files are decompressed.
The “IntraSpection Personality Module Welcome” dialog box appears.
- 6 Click **Next** to continue.

The “Software License Agreement” window appears. Review the agreement carefully.

- 7 Click **Yes** to accept the agreement and continue with the installation or click **No** to exit the installation.

The “IntraSpection Personality Module Read Me” window appears. Review the information carefully.

- 8 Click **Next** to continue.

The decompressed Personality Module files are installed onto the computer.

The “Decompression of the Source is Now Complete” dialog box appears.

- 9 Click **OK** to continue with the installation.

The “Select Module to Install” window appears, displaying the LS1000.ipm file See Figure 2-1.

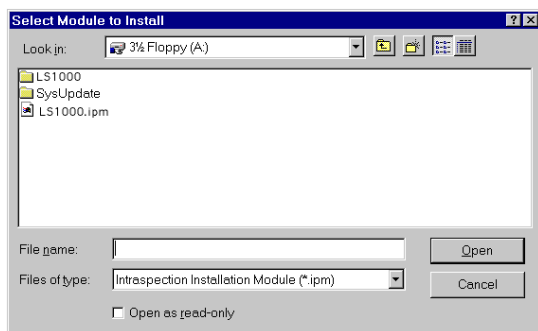


Figure 2-1 Select Module to Install window

- 10 Click once on the **LS1000.ipm** file.

- 11 Click **Open**.

The “Enter Product Serial Number” window appears.

- 12 Enter the serial number that came with your copy of the Personality Module.

The serial number is located on the inside cover of this User’s Manual.

▲ **Important:** The serial number is case-sensitive; enter it exactly as shown.

13 Click **OK**.

The “IntraSpection Module Installation” window appears.

▲ **Important:** This window should be pointing to the directory that contains the IntraSpection (websuite.exe) program. If it is not, click **Browse** and locate that directory.

14 Click **OK**.

△ **Note:** A “Select Database” window may appear. If it does, select **vendor.mdb**, then click **OK**.

△ **Note:** An “Updating IntraSpection System Files” window may appear, if it does, click **OK**.

The installer program installs the Personality Module into the IntraSpection Application Server.

Installation is complete when the “Installation Completed Successfully” dialog box appears.

15 Start the IntraSpection Application Server, following the guidelines below:

- Windows NT 3.51 users: double-click the **IntraSpection** icon (located in the Programs group).
- Windows NT 4.0 users: open the **Start** menu, select **Programs**, then **IntraSpection**.

For information on accessing the SuperStack II Switch 1000, see Chapter 3, “Accessing the Device.”

For information on performing some basic management functions, see Chapter 4, “Management.”

3

Accessing the Device

This chapter explains how to access the SuperStack II Switch 1000 Personality Module's **Device Page**. The Device Page provides access to the Personality Module's management options.

Accessing the Device Page

To access the Device Page for a SuperStack II Switch 1000 device, you must first create a map of your network within IntraSpection.

- 1 Make sure the Personality Module is installed and the IntraSpection Application Server is running.
- 2 Access IntraSpection from any Java-enabled Web browser (requires logging into IntraSpection).
 - ▲ **Important:** For help on accessing and logging into IntraSpection, refer to the IntraSpection User's Manual.
- 3 After you are logged into IntraSpection, click **Auto Discovery** on the IntraSpection Main Menu.

The AutoDiscovery Page appears.
- 4 Complete each field on the AutoDiscovery Page, following the guidelines below:
 - ☐ Type the IP subnet address of the SuperStack II Switch 1000 to be managed in the **Segment** field.
 - ☐ Type the SuperStack II Switch 1000's community string in the **Community** field.
 - ☐ Make sure the **Enterprise ID** field has a value of **all**.
 - ☐ Type the lowest (beginning) IP address on your network in the **Low IP Address** field.

- ❑ Type the highest (last) IP address on your network in the **Hi IP Address** field.
- ❑ Select **New** in the **Discovery Mode** field to create a new map, or select **Append** to attach this map to the map that is stored in your system's buffer (if any).

5 Click **Apply**.

IntraSpection “discovers” and builds a map of your network. The map contains icons which represent each SNMP device on the network. Figure 3-1 is an example map.

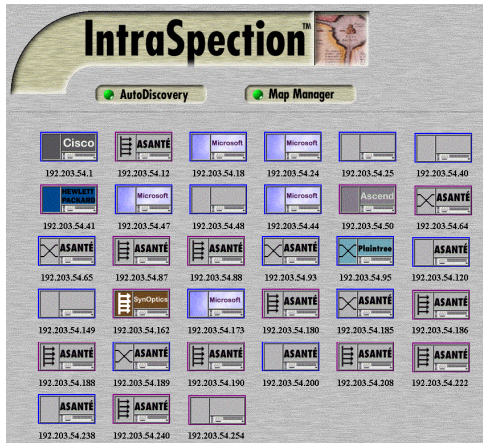


Figure 3-1 Discovered network map

6 Click once on the SuperStack II Switch 1000's device icon.

- △ **Note:** The SuperStack II Switch 1000's device icon is labeled “3Com” and has the device's IP address directly below it.

The Device Page for the selected SuperStack II Switch 1000 appears (see Figure 3-2 on page 3-3).

For information on the Device Page's components, see “Device Page Components” on page 3-3.

For information on performing basic management functions, see “Performing Basic Management Functions” on page 4-1.

Device Page Components

The Device Page consists of several components, including device information, a front panel image, a VLAN identification window, and management menus. See Figure 3-2.

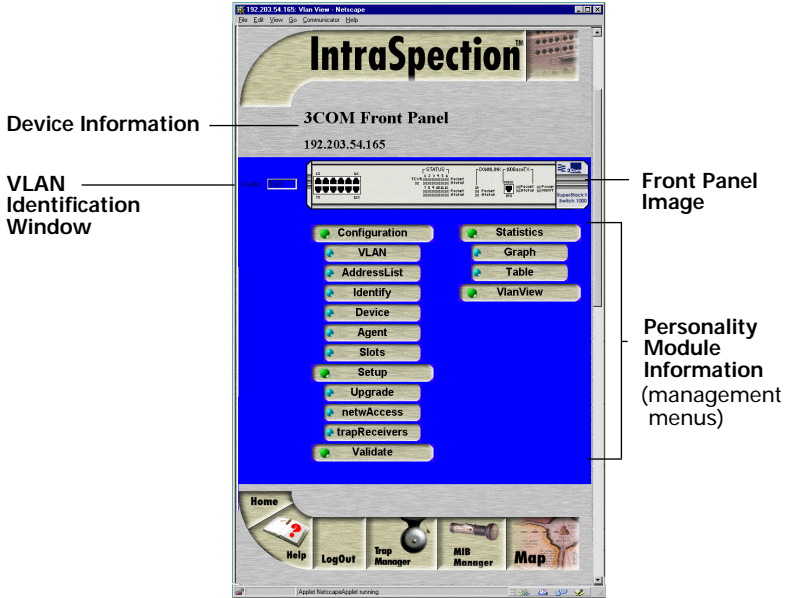


Figure 3-2 Device Page components

Device Information

The following device information is displayed at the top of the Device Page:

- ❑ **Device Description** — a description of the device (i.e., "3Com Front Panel").
- ❑ **IP Address** — the IP address of the SuperStack II Switch 1000.

VLAN Identification Window

The VLAN identification window displays the number of the currently selected VLAN group. It also allows you to select a configured group of VLAN by typing the VLAN group's number in the window.

There are 16 VLAN groups; depending on the number of VLANs you have created, this number can be from **1001** to **1016**.

See “Selecting a VLAN Group for Management” on page 3-5 for information on selecting a VLAN group on the front panel image. See “Creating VLAN Groups” on page 5-5 for information on creating a VLAN group.

Front Panel Image

The front panel image contains the following components (as illustrated in Figure 3-3):

- ❑ **Status LEDs** — real-time LEDs that represent the LEDs on the SuperStack II Switch 1000's front panel. These LEDs indicate power, management, and port activity.
- ❑ **Device** — the SuperStack II Switch 1000.
- ❑ **Port** — each port on the SuperStack II Switch 1000.
- ❑ **VLAN groups** — groups of configured VLANs on the SuperStack II Switch 1000. These are identified by a number (displayed in the VLAN identification window) and a group marker (a green “v” displayed in each port that belongs to the VLAN group).

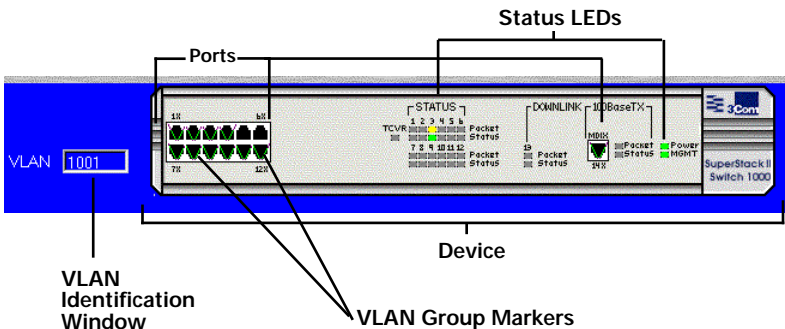


Figure 3-3 Front panel image components

Selecting the Device for Management

The SuperStack II Switch 1000 can be managed at different levels; that is, at the device, VLAN group, or port level.

For example, if you do not select any item on the SuperStack II Switch 1000 and click the **Graph** menu, statistics for the SuperStack II Switch 1000 are displayed. If you select a VLAN group and click **Graph**, statistics for the selected VLAN group are displayed.

To select the device:

- ☐ Do not click anything on the front panel image.

To deselect the device:

- ☐ Click once on a port.

Selecting a VLAN Group for Management

There are two methods for selecting a VLAN group for management:

- ☐ Click once on a port that belongs to the VLAN group you want to manage.

A green **VLAN group marker** appears in the selected port and in all of the ports belonging to that group of VLAN. See Figure 3-4. The number of the VLAN group (1001 to 1016) appears in the VLAN identification window.

- ☐ Click once in the VLAN identification window and type the number of the VLAN group you want to manage.

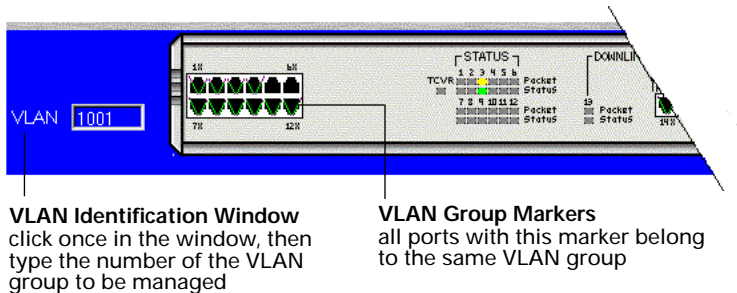


Figure 3-4 Selecting a VLAN group

To deselect a VLAN group:

- ☐ Click on any port not belonging to the selected VLAN group.

Accessing the Device

Selecting a Port for Management

To select a port for management:

- ❑ Click once on a port on the front panel image. If a VLAN group marker appears, click on the port again until the port is highlighted by a green box. See Figure 3-5.

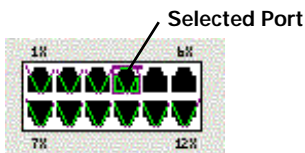


Figure 3-5 Selecting a port

To deselect the port:

- ❑ Click again on the selected port.

Menus

The menus on the SuperStack II Switch 1000's Device Page provide access to the different management options supported by the Personality Module.

Tables

Some menus contain tables with information that is configurable directly on-screen from your Web browser while others contain information that is read-only.

The tables below describe how to recognize configurable and read-only fields.

Configurable Information

Menu Item	Action
Drop-down menus	Select from an available option.
White-colored fields	Type information.

Read-only Information

Menu Item	Action
Green- or gray-colored fields	None; read-only field.

Table Columns

Table columns can be resized by placing the mouse pointer on a column title's left or right side (until a double arrow appears) and dragging the column to the left or to the right, as desired.

Buttons

Some menus contain buttons that allow you to edit and/or update the page's table.

The table below describes the different buttons that are available and their functions.

Button	Action
Apply	Applies any changes made to the device.
Refresh	Updates the page with the latest information.
Modify	Modifies a selected entry.
Add	Adds an entry into the table.

4

Management

This chapter explains how manage the SuperStack II Switch 1000 via the IntraSpection Personality Module.

- ▲ **Important:** To manage the SuperStack II Switch 1000, you must first access the switch's **Device Page**. See Chapter 3, "Accessing the Device," for instructions.

Performing Basic Management Functions

This chapter covers the following tasks:

Configuration Tasks

Configuration Task	Page Number
Setting community strings	page 4-3
Configuring network access parameters	page 4-5
Configuring identification information	page 4-6
Performing a software upgrade	page 4-7

Management Tasks

Management Task	Page Number
Updating the Device Page	page 4-8
Viewing general device information	page 4-9
Resetting the device	page 4-10
Viewing group information	page 4-11
Managing trap receivers	page 4-12
Viewing SNMP agent information	page 4-14

Management

Management Task	Page Number
Managing the port address table	page 4-15
Viewing statistics	page 4-18

▲ **Important:** For information on using VLAN, see Chapter 5, “VLAN.”

Setting Community Strings

Community strings define access rights for reading and writing SNMP data objects for a device.

The community strings (read community and write community) for the SuperStack II Switch 1000 are manually set in the device via its console port. In order to access the device with IntraSpection, the community strings must be set in IntraSpection to match those set in the device.

- ▲ **Important:** It is recommended that you set the community strings for the device in IntraSpection before you attempt to perform any network management functions.

This section describes how to set the community strings in IntraSpection to match those set in the SuperStack II Switch 1000.

- ▲ **Important:** You must know the community strings of the SuperStack II Switch 1000 in order to correctly set them in IntraSpection. Refer to the SuperStack II Switch 1000's User's Guide for instructions on viewing the device's community strings.

To set the community strings for a SuperStack II Switch 1000 in IntraSpection:

- 1 On the SuperStack II Switch 1000 Device Page, click the **map** icon on the IntraSpection navigation bar (located at the bottom of the screen), as shown in Figure 4-1.



Figure 4-1 IntraSpection navigation bar

The most recently “discovered” map appears.

- 2 Click the **Map Manager** button.
The Map Manager Page appears, similar to Figure 4-2.



Figure 4-2 IntraSpecation Map Manager Page

- 3 Click the **Edit Device** button.
The Map Configuration Table appears, similar to Figure 4-3.

The screenshot shows the 'Map Configuration Table' form. It has a title 'Map Configuration Table' at the top. Below the title is a table with four rows and two columns. The first column contains labels: 'IP Address', 'Read Community String', 'Write Community String', and 'Alias Name'. The second column contains text input fields. Below the table is an 'Apply' button.

Figure 4-3 Map Configuration Table

- 4 Enter the device's IP address in the **IP Address** field.
- 5 Enter the device's read community string in the **Read Community String** field.
- 6 Enter the device's write community string in the **Write Community String** field.
- 7 Click **Apply**.
The read and write community strings are configured.

Configuring Network Access Parameters

To configure and/or manage the SuperStack II Switch 1000 over the network or via out-of-band access, the device needs to be properly configured with network access parameters. These parameters are initially configured in the device via the console port; however some can be modified using IntraSpection.

To view/configure network access parameters:

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire device.)
- 2 Click **netwAccess**.

The Network Access Information table appears, similar to Figure 4-4.

The screenshot shows a web interface titled "Network Access Information" for the device "192.203.54.165: Switch 1000". It contains a table with two sections: "Inband" and "OutofBand".

Inband	
IP Address	192.203.54.165
Subnet Mask	255.255.255.0
Router Address	192.203.54.1
Bootp Mode	enable
OutofBand	
IP Address	0.0.0.0
Subnet Mask	0.0.0.0

At the bottom of the table are two buttons: "APPLY" and "REFRESH".

Figure 4-4 Network Access Information table

- 3 Click once in the field to be edited.
For a description of each field, see "Network Access" on page 6-14.
- 4 Type the new information or select an option (if it's a drop-down menu).
- 5 Click **Apply**.
The network access parameters are configured. To view updated information, click **Refresh**.

Configuring Identification Information

To help with device identification, you can add certain details about the SuperStack II Switch 1000; such as, the device's physical address, name, location, and contact information.

To view and/or configure device identification information:

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire device.)
- 2 Click **Identify**.
The Device Identification table appears, similar to Figure 3-5.

Device Identification
192.203.54.165: Switch 1000

Identification	
PhysAddr	08:00:4E:11:D3:B3
Object ID	1.3.6.1.4.1.43.1.8.13
Description	3Com SuperStackII Switch 1000, SW Version 2.10

Name	Switch 1000
Location	3Com
Contact	3Com

Up Time	22h 43m 51s
---------	-------------

Configuration	
Interfaces	31

APPLY REFRESH

Figure 3-5 Device Identification table

- 3 Click once in the field to be edited.
For a description of each field, see “Identify” on page 6-6.
 - ▲ **Important:** Only those fields that are colored white can be edited.
- 4 Type the new information.
 - ▲ **Important:** A maximum of 254 characters (including spaces) is allowed.
- 5 Click **Apply**.
The device identification information is modified. To view updated information, click **Refresh**.

Performing a Software Upgrade

The SuperStack II Switch 1000's software can be upgraded via IntraSpecion.

To upgrade the device's software:

- 1 Click **Upgrade**.

The Software Upgrade table appears, similar to Figure 4-6.

Software Upgrade	
192.203.54.165: Switch 1000	
Download	
Load Status	success
SW Version	2.10
HW Version	3
Download Filename	
Server Address	
<input type="button" value="APPLY"/> <input type="button" value="REFRESH"/>	

Figure 4-6 Software Upgrade table

- 2 Type the software's file name and network path in the **Download Filename** field.
- 3 Type the server's IP address where the software file resides in the **Server Address** field.
- 4 Click **Apply**.
- 5 Initiate the downloading via one of the following two methods:
 - ☐ Physically power the device off and then on.
 - ☐ Open the **Slots** menu, click once on the row entry, click **Modify**, open the **Action** drop-down menu and select **Reset**, then click **Apply**.

Updating the Device Page

The files for the SuperStack II Switch 1000's Personality Module are stored within the IntraSpection Application Server's database.

Occasionally, these files should be updated from the Device Page to ensure that you are viewing the device's latest information.

To update the Personality Module's Device Page:

1 Click **Validate**.

The Device Page is updated with the latest information. After it is updated, the IntraSpection Map Manager Page appears.

2 Click **AutoDiscovery** to rediscover the SuperStack II Switch 1000.

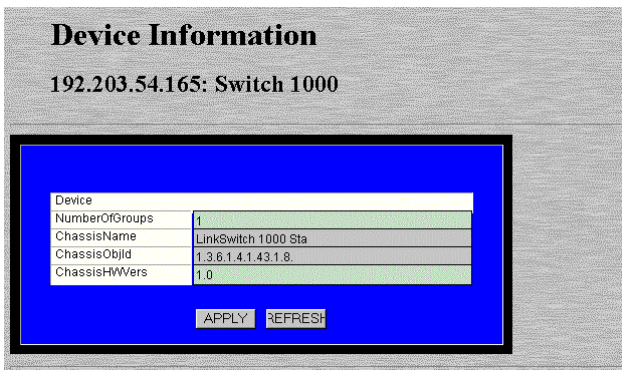
▲ **Important:** Refer to page 3-1 for instructions on discovering devices with AutoDiscovery.

Viewing General Device Information

General device information includes items such as the device's chassis name, object ID, and hardware version number.

To view general device information:

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire device.)
- 2 Click **Device**.
The Device Information table appears, similar to Figure 4-7.



The screenshot shows a web interface titled "Device Information" for the device "192.203.54.165: Switch 1000". Below the title is a table with the following data:

Device	
NumberOfGroups	1
ChassisName	LinkSwitch 1000 Sta
ChassisObjId	1.3.6.1.4.1.43.1.8
ChassisHWVers	1.0

Below the table are two buttons: "APPLY" and "REFRESH".

Figure 4-7 Device Information table

△ **Note:** The information displayed on this page is read-only.

For a description of each field, see “Device” on page 6-7.

- 3 Click **Refresh** to view the latest information from the device.

Resetting the Device

You can reset the SuperStack II Switch 1000 via one of two methods:

- ☐ By physically powering off the SuperStack II Switch 1000, then powering it on.
- ☐ Via the **Slots** menu in IntraSpec.

To reset the SuperStack II Switch 1000 via the **Slots** menu in IntraSpec:

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire device.)
- 2 Click **Slots**.
The Slot Configuration Table appears, similar to Figure 4-8.

Location Type	Location	Slot ID	Device Type	Slot Type	Slot Version
S	2	1	SuperStack II Switch	S	0.00

Figure 4-8 Slot Configuration Table

- 3 Click once on the row containing the group you want to reset.

Δ **Note:** For a description of each field, see “Slots” on page 6-9.
- 4 Click **Modify**.
The Modify Dialog box appears.
- 5 Open the **Action** drop-down menu and select **Reset**.
- 6 Click **Apply**.
The device is reset.

Viewing Group Information

The Slot Configuration Table displays and allows you to modify group information about the SuperStack II Switch 1000. The group information contains details about the device as if it were a part of a device stack.

- △ **Note:** The SuperStack II Switch 1000 is a stackable switch. In a stack of switches, each switch in the stack is referred to as a “group.”

To view/configure the Slot Configuration Table:

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire device.)
- 2 Click **Slots**.

The Slot Configuration Table appears, similar to Figure 4-9.

Location Type	Location	Event Code	Event Type	Event Type	Event Code
1	1	1 2 3 4 5 6 7 8 9 0	1000-1000-1000	1	1 2 3 4 5 6 7 8 9 0

Figure 4-9 Slot Configuration Table

- Note:** For a description of each field, see “Slots” on page 6-9.

- To modify information, click once on a row entry.
- Click **Modify**.
The Modify Dialog box appears.

- ▲ **Important:** Only those fields that contain drop-down menus can be edited.

- 5 Click **Apply**.
To view updated information, click **Refresh**.

Managing Trap Receivers

The SuperStack II Switch 1000 can be set to generate traps. Traps are messages sent across the network to an SNMP network manager (such as IntraSpecation). They alert you to faults or to changes that occur to the switch device.

- ▲ **Important:** Refer to the SuperStack II Switch 1000's User's Guide for instructions on setting traps.

This section describes how to add and delete trap receivers. Trap receivers are management stations designated to receive traps when they occur.

Adding a Trap Receiver

To add a trap receiver:

- ▲ **Important:** A maximum of **four** trap receivers is allowed.

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire device.)
- 2 Click **trapReceivers**.

The Trap Receiver Table appears, similar to Figure 4-10.

TrapIndex	Status	Receiver Address	Community String	Location	Protocol	Threshold Interval
1	active	192.203.54.173	public	19.23.22.31	snmp	0

Refresh Monitor Add Delete

Complete

Figure 4-10 Trap Receiver Table

- 3 Click **Add**.
The Add Dialog box appears.
- 4 Open the **Status** drop-down menu and select **active**.
- 5 Type the IP address of the management station that is to receive traps in the **Receiver Address** field.

▲ **Important:** Do NOT type an IP address of 0.0.0.0.

- 6 Type the community string of the management station in the **Community String** field.
- 7 Click **Apply**.
An entry for the management station appears in the table.
If it does not appear, click **Refresh**.

Deleting a Trap Receiver

To delete a trap receiver entry:

- 1 Click once on the row containing the entry to be deleted.
- 2 Click **Modify**.
The Modify Dialog box appears.
- 3 Open the **Status** drop-down menu and select **notIn-Service**.
- 4 Click **Apply**.
- 5 Click **Refresh** in the Trap Receiver Table.
The trap receiver is deleted.

Modifying a Trap Receiver

To change the IP address of a trap receiver entry:

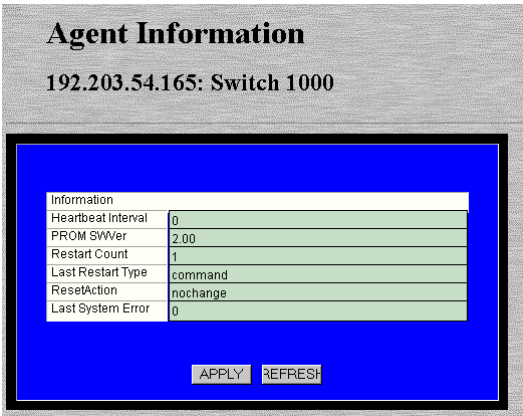
- 1 Delete the trap receiver entry, following the directions above.
- 2 Add a new trap receiver entry, following the instructions on page 4-12.

Viewing SNMP Agent Information

SNMP agent information includes items such as the device's PROM software version number, recent reset action, and last system error.

To view SNMP agent information:

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire device.)
- 2 Click **Agent**.
The Agent Information table appears, similar to Figure 4-11.



The screenshot shows a web interface titled "Agent Information" for the device "192.203.54.165: Switch 1000". Below the title is a table with the following data:

Information	
Heartbeat Interval	0
PROM SWVer	2.00
Restart Count	1
Last Restart Type	command
ResetAction	nochange
Last System Error	0

At the bottom of the table are two buttons: "APPLY" and "REFRESH".

Figure 4-11 Agent Information table

△ **Note:** The information displayed in this table is read-only.

For a description of each field, see “Agent” on page 6-8.

- 3 To view the latest information, click **Refresh**.

Managing the Port Address Table

The Port Address Table is a table of node addresses that the device receives on its ports. It uses the information in the table to decide whether a frame should be forwarded or filtered.

By modifying entries in the Port Address Table, you can restrict access to certain ports by specifying the physical addresses that are allowed to connect to the ports.

The table holds a maximum of 500 entries. Initially, all entries are ageing entries (that is, they are removed from the table if, after a period of time, the device has not transmitted or if the device is reset or powered off). Entries can be set as “permanent” to remain in the table regardless of the aging time or if the switch is powered off or reset.

Viewing the Port Address Table

The view the Port Address Table:

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire device.)

- 2 Click **Address List**.

The Port Address Table appears, similar to Figure 4-12.

Index	Unit ID	Port ID	Address Index	Address	Address Status	Address Priority
1	1	3	1	80.26.4F.D1.0B.F1	normal to send	normal to send
2	1	3	2	08.80.8C.82.F1.0C	normal to send	normal to send
3	1	3	3	80.80.8A.7A.01.0A	normal to send	normal to send
4	1	3	4	80.08.84.50.E2.35	normal to send	normal to send
5	1	3	5	80.08.82.88.58.6C	normal to send	normal to send
6	1	3	6	80.08.83.C8.08.92	normal to send	normal to send
7	1	3	7	08.80.84.43.25.83	normal to send	normal to send
8	1	3	8	08.80.84.03.6A.83	normal to send	normal to send
9	1	3	9	08.80.84.18.90.88	normal to send	normal to send
10	1	3	10	80.08.84.50.E1.80	normal to send	normal to send
11	1	3	11	08.80.84.15.35.82	normal to send	normal to send
12	1	3	12	08.80.84.18.86.83	normal to send	normal to send
13	1	3	13	08.80.84.18.40.87	normal to send	normal to send
14	1	3	14	80.80.84.70.82.84	normal to send	normal to send

Figure 4-12 Port Address Table

The table displays the last 500 addresses that the device has received.

Use the table's scroll bar to navigate up and down the table. You cannot directly search for a specific MAC address in the table.

- 3 Click **Refresh** to view the latest information.

Specifying Port Access

To restrict access to a port by specifying the physical address that is authorized to connect to the port:

- 1 Select the number of the port you want to control access to by clicking once on a row containing that port number.

For example, to specify access to port number 3, click on a row entry that contains a **Port ID** of 3.
- 2 Click **Modify**.
The Modify Dialog box appears.
- 3 Type the MAC address that is authorized to connect to this port in the **Address** field.
- 4 Determine the status of the address by opening the **Address Status** drop-down menu and selecting one of the following options:
 - ☐ **nonPermanent** — sets the address to be a non-permanent entry in the table; the IP address is deleted after the specified aging time or when the device is reset or powered off.
 - ☐ **permanent** — sets the address to be a permanent entry in the table; the IP address is not deleted regardless of time or power off/reset.
- 5 Determine the priority of the address by opening the **Address Priority** drop-down menu and selecting one of the following options:
 - ☐ **normalPriority** — sets the address to filter normally through the device.
 - ☐ **highPriority** — sets the address to filter at a high priority through the device.
- 6 Click **Apply**.
Access for the port is configured. To view updated information, click **Refresh**.

Deleting an Entry

To manually delete an entry in the Port Address Table:

- 1 Select an entry to be deleted by clicking once on its row in the table.
- 2 Click **Modify**.
- 3 Open the **Address Status** drop-down menu and select **delete**.
- 4 Click **Apply**.
The entry is deleted.

Viewing Statistics

Statistics for a SuperStack II Switch 1000, one of its VLAN groups, or one of its ports can be viewed in two different formats: table or graph. Statistics collected include runts, alignment errors, collisions, short events, and readable frames.

Table Statistics

- 1 To view statistics for the SuperStack II Switch 1000, do not select anything on the Device Page's front panel image.

To view statistics for a VLAN group, click once on a port belonging to that VLAN group.

To view statistics for a port, click on the port until it is highlighted with a green box.

△ **Note:** For more information about selecting a VLAN group, see “Selecting a VLAN Group for Management” on page 3-5.

- 2 Click **Table**.

The Table Statistics page appears for the device, the selected VLAN, group or the selected port, similar to Figure 4-13.

VLAN Statistics Table
192.203.54.165: Switch 1000
VLAN: 1000

Sampling Interval: 10 seconds [v] RESET

Object	Run	Fail	Align	Total
Broadcast Frames	0	0	0	0.000000
Unicast Frames	0	0	0	0.000000
Multicast Frames	0	0	0	0.000000
Link Errors	0	0	0	0.000000
Alignment Errors	0	0	0	0.000000
Frames Too Long	0	0	0	0.000000
Short Events	0	0	0	0.000000
Total Errors	0	0	0	0.000000
1000 Errors	0	0	0	0.000000

Figure 4-13 Table Statistics

For a complete description of each object in the table, see “Table” on page 6-21.

- 3 Select the number of seconds to poll for statistics in the **Sampling Interval** drop-down menu.

Statistics are gathered in the following columns:

- ☐ **Curr** — (current) the number of occurrences each second.
- ☐ **Peak** — the largest number of occurrences since opening or resetting the screen.
- ☐ **Avg** — the average number of occurrences since opening or resetting the screen.
- ☐ **Total** — the total number of occurrences since opening or resetting the screen.

4 To reset the object counters to zero, click **Reset**.

Graph Statistics

- 1 To view statistics for the SuperStack II Switch 1000, do not select anything on the Device Page's front panel image.
To view statistics for a VLAN group, click once on a port belonging to that VLAN group.
To view statistics for a port, click on the port until it is highlighted with a green box.

- 2 Click **Graph**.

The Graph Statistics page appears, similar to Figure 4-14.

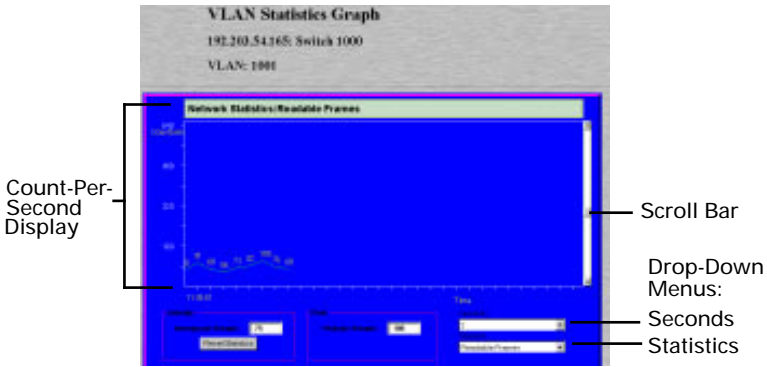


Figure 4-14 Graph Statistics

- 3 Select the object to be monitored in the **Statistics** drop-down menu.
For a description of each object, see “Graph” on page 6-18.
- 4 Select the number of seconds for which statistics are to be gathered in the **Seconds** drop-down menu.
The graph automatically begins gathering statistics.
- 5 Use the scroll bar to change the graph's count-per-second display (scroll up to increase the count-per-second, scroll down to decrease it).
 - ☐ **Average per Second** — the average number of occurrences since opening or resetting the screen.
 - ☐ **Peak per Second** — the largest number of occurrences since opening or resetting the screen.
- 6 To reset the statistics in the graph, click **Reset**.

This chapter provides an overview of VLAN and explains how to use it with the SuperStack II Switch 1000.

VLAN Overview

VLAN stands for virtual local area network. VLAN is a network configuration tool that allows you to “group” together specific ports on the same switch, designating them as their own virtual network segments.

With the SuperStack II Switch 1000 Personality Module, the use of VLAN lets you:

- ☐ Create up to 16 separate user groups
- ☐ Limit broadcast and multicast traffic
- ☐ Increase security (by specifying which segments can communicate with each other)
- ☐ Allocate network resources (such as servers)
- ☐ Designate specific application groups

You can create up to 16 separate VLANs on the SuperStack II Switch 1000 by assigning each port on the switch to a VLAN number. By grouping certain ports together, you effectively “cut” the switch into completely independent segments.

For example, you can designate ports 2, 6, and 8 to be on VLAN1 and ports 1, 10, and 12 to be on VLAN2. As a result, each group of ports will have its own workgroup and resources within its domain. You can create and reconfigure these workgroups, reallocate resources as required, and gather statistics at the VLAN group and port levels.

Viewing VLAN Groups

The SuperStack II Switch 1000 comes with 16 groups of VLAN. At start-up, all of the switch's ports are on vlan1 (displayed as **1001** in the VLAN Identification Window).

- ▲ **Important:** You can delete VLAN groups; however, it is not recommended.

To view the VLAN groups:

- ▲ **Important:** To access and use the VLAN groups via the VLAN View menu, you must use **Netscape Communicator v. 4.0**.

- ❑ Click **VLANView** on the SuperStack II Switch 1000 Device Page.

The VLAN View Page appears. Figure 5-1 is an example of the VLAN View Page configured with eight groups of VLAN.

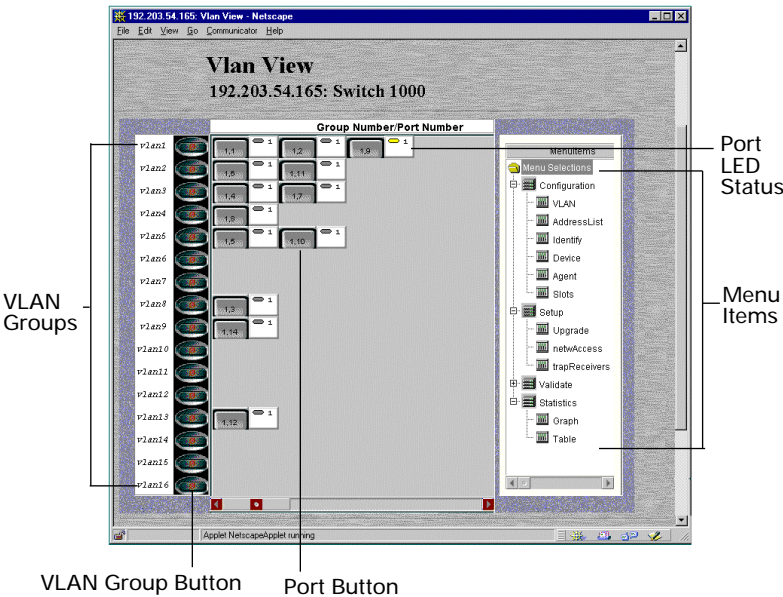


Figure 5-1 VLAN View Page

VLAN Groups

The 16 VLAN groups are identified by a number (vlan1, vlan2, etc) and a corresponding button, as shown in Figure 5-2.

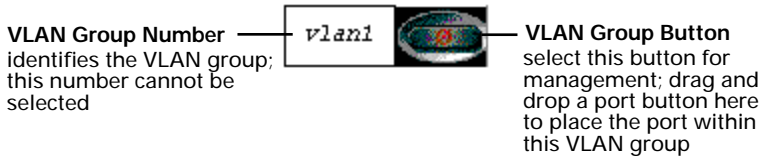


Figure 5-2 VLAN groups

The VLAN group button is used to select the VLAN group for management. It is also used as a place to “drop” a port number.

See “Viewing Statistics for a VLAN Group” on page 5-12 and “Creating VLAN Groups” on page 5-5 for more information

VLAN Ports

Each of the switch’s ports are identified by a port button. The port button contains a group number and a port number. (The group number represents the device — in this case the SuperStack II Switch 1000 — and is always labeled “1”).

Each port button also has a corresponding real-time LED status box, which displays activity on the port.

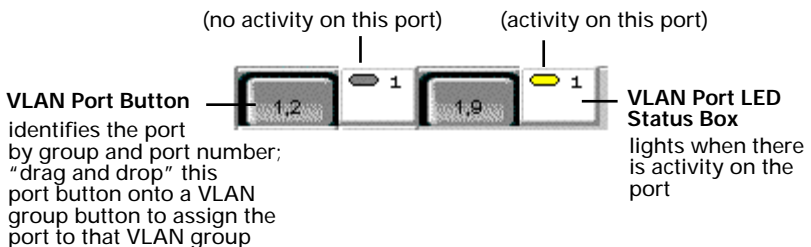


Figure 5-3 VLAN ports

You can drag and drop a port button onto a VLAN group button to re-assign the port to a VLAN group. See “Creating VLAN Groups” on page 5-5 for more information.

VLAN

VLAN Menu Items

The menu items on the VLANView screen allow for individual management of each of the 16 groups of VLAN.

The menu items are identical to those on the SuperStack II Switch 1000 Device Page. Each menu can be opened or closed by clicking once on its menu-level indicator. See Figure 5-4.

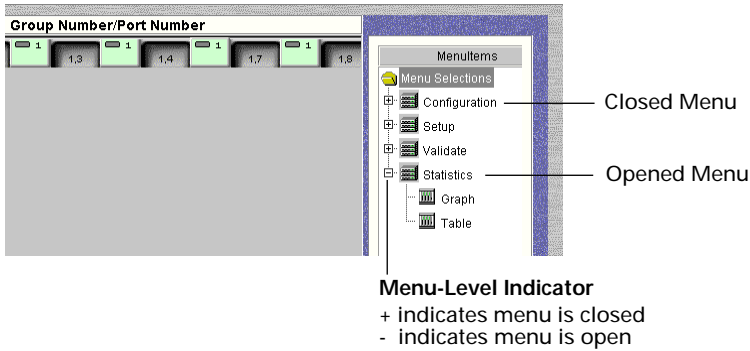


Figure 5-4 VLAN menus

Creating VLAN Groups

The SuperStack II Switch 1000 comes with 16 groups of VLAN. By default, all of the switch's ports are assigned to vlan1.

To create more groups of VLANs, "group" together the ports that you want to have on the same segment by dragging and dropping a port button onto a VLAN group button.

To create a VLAN group:

- 1 Open the SuperStack II Switch 1000's Device Page.
- 2 Wait for the page to validate (it is validated when you see flashing LEDs).
 - △ **Note:** The front panel image on the Device Page displays the currently selected VLAN group (such as **1001**) as well as the ports that are assigned to that VLAN. See "Selecting a VLAN Group for Management" on page 3-5 for more information.
- 3 Click once on the **VlanView** menu.
The VLAN View Page appears.
- 4 Locate the port you want to assign to a VLAN by finding its port button on the VLAN window.
Use the scroll bar at the bottom of the VLAN window to scroll to the right and locate port buttons that are not visible on the screen.
- 5 Click once on the port's button and hold down the left mouse button until a small dot appears next to the screen's pointer. See Figure 5-5.

Port Button Selection;
click on the port button and hold down
the left mouse button until a dot appears
next to the screen's pointer

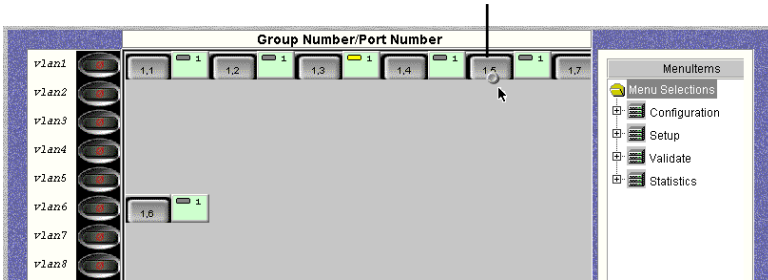


Figure 5-5 Selecting a port button

- 6 While holding down the mouse button, drag the dot
onto the VLAN group button that you want to assign
the port to, then release the mouse button. See
Figure 5-6.

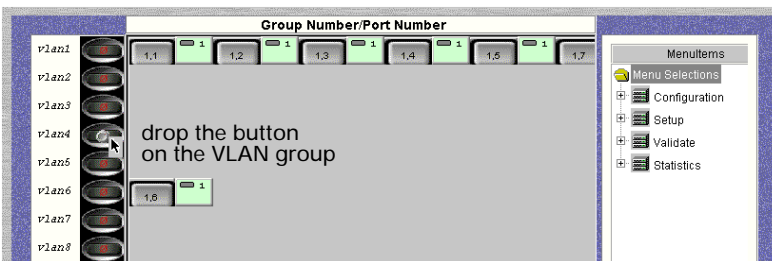
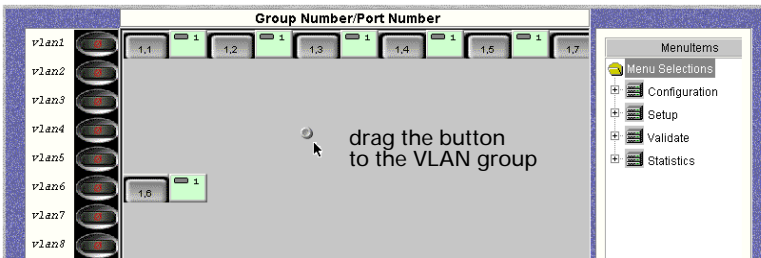


Figure 5-6 Assigning a port to a VLAN group

The port is now assigned to that VLAN group. The port's
button and status LED box will be aligned with the
VLAN group number. See Figure 5-7.

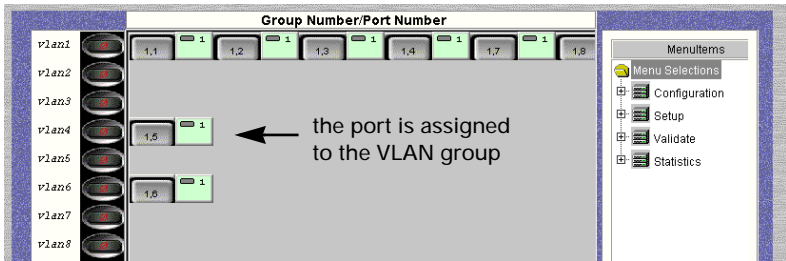


Figure 5-7 New VLAN group

- 7** Repeat steps 1 – 6 for each port you want to assign to a VLAN group.

Managing VLAN Groups

There are two ways to manage each configured group of VLAN on the SuperStack II Switch 1000:

- ☐ via the **VLANView Page**
- ☐ via the SuperStack II Switch 1000's **Device Page**

The management menu items on the VLAN View Page are identical to those on the SuperStack II Switch 1000's Device Page.

▲ **Important:** To access and use the VLAN View screen, you must use **Netscape Communicator v. 4.0**.

This section describes how to perform the following management tasks via the VLAN View Page:

Management Task	Page Number
Naming a VLAN group	page 5-9
Disabling a VLAN group	page 5-11
Viewing statistics for a VLAN group	page 5-12

Naming a VLAN Group

For identification purposes, configured groups of VLAN can be assigned a name (such as “Marketing” or “Payroll”).

To assign a name to a VLAN group via the VLAN View Page:

- 1 In the VLAN View Page, select the VLAN group you want to name by clicking once on its VLAN group button. See Figure 5-8.

Click once on the VLAN group button; the button turns green when selected

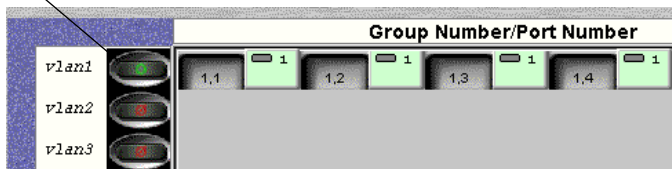


Figure 5-8 Selecting a VLAN group

- 2 Open the Configuration menu (if it's not already opened) by clicking once on its menu-level indicator. See Figure 5-9.

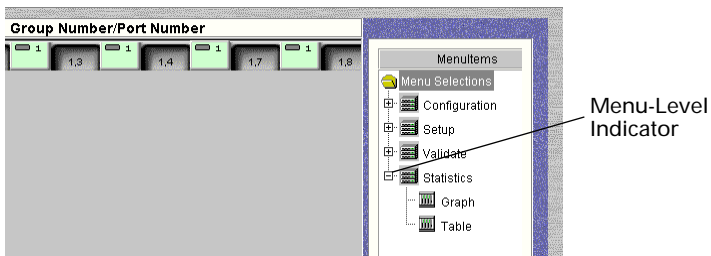


Figure 5-9 VLAN menu-level indicator

- 3 Click once on the **VLAN** menu item.
The VLAN Workgroup Table appears, similar to Figure 5-10.

Workgroup Table
192.203.54.165: Switch 1000

vlan_group_id	Workgroup Name	Unid	Connected Ports	Status	Default Action
1801	VLAN 1	0	8	active	noAction
1802	VLAN 2	0	8	active	noAction
1803	VLAN 3	0	8	active	noAction
1804	VLAN 4	0	8	active	noAction
1806	VLAN 6	0	8	active	noAction
1808	VLAN 8	0	8	active	noAction
1807	VLAN 7	0	8	active	noAction
1809	VLAN 9	0	8	active	noAction
1810	VLAN 10	0	8	active	noAction
1811	VLAN 11	0	8	active	noAction
1812	VLAN 12	0	8	active	noAction
1813	VLAN 13	0	8	active	noAction
1814	VLAN 14	0	8	active	noAction
1815	VLAN 15	0	8	active	noAction
1816	VLAN 16	0	8	active	noAction

Complete

Figure 5-10 VLAN Workgroup Table

- 4
- Select the VLAN group to be named by clicking once on its row entry.
- 5
- Click **Modify**.
The Modify Dialog box appears.
- 6
- Type a name for the VLAN group in the **WGroup-Name** field.
- 7
- Click **Apply**.
The VLAN's group name is changed and appears in the Workgroup Table. If it does not appear, click **Refresh**.

Disabling a VLAN Group

Disabling a VLAN group prevents all of the ports belonging to that group from communicating with each other.

To disable a VLAN group:

- 1 In the VLAN View Page, select the VLAN group you want to disable by clicking once on its VLAN group button.
The VLAN group button turns green when selected.
- 2 Open the Configuration menu (if it's not already opened) by clicking once on its menu-level indicator.
- 3 Click once on the **VLAN** menu item.
The Workgroup Table appears.
- 4 Select the VLAN group to be disabled by clicking once on its row entry.
- 5 Click **Modify**.
The Modify Dialog box appears.
- 6 Open the **Status** drop-down menu and select **notIn-Service**.
- 7 Click **Apply**.
The VLAN group is disabled.

Viewing Statistics for a VLAN Group

You can view statistics — in table and graph formats — for each of the configured groups of VLAN on the SuperStack II Switch 1000.

To view statistics for a VLAN group:

- 1 In the VLAN View Page, select the VLAN group for which you want to view statistics by clicking once on its VLAN group button.

The group number button turns green when selected.

- 2 Open the Statistics menu (if it's not already opened) by clicking once on its menu-level indicator.

- 3 Click once on **Graph** (to view statistics in graph format) or **Table** (to view statistics in table format).

The Statistics Table or Graph Page appears for the selected VLAN group.

See “Viewing Statistics” on page 4-18 for more information on using the Statistics Page.

6

Menus

This chapter describes each management menu on the SuperStack II Switch 1000 Personality Module's Device Page.

The table below provides a brief description of each menu; the sections that follow explain each menu in detail.

Table 6-1 Device Page Menu Descriptions

Menu	Description
Configuration	Title for the submenus listed below it; this menu cannot be selected.
VLAN	Allows you to name, disable or enable any of the 16 groups of VLAN. See "VLAN" on page 6-3.
AddressList	Allows you to view the last 500 addresses that the device received. Also allows you to restrict access to each port. See "Address List" on page 6-4.
Identify	Allows you to configure device identification information. See "Identify" on page 6-6.
Device	Allows you to view general device information. See "Device" on page 6-7.
Agent	Allows you to view information on the device's SNMP agent. See "Agent" on page 6-8.
Slots	Allows you to view and configure the device's group information. See "Slots" on page 6-9.
Setup	Title for the submenus listed below it; this menu cannot be selected.
Upgrade	Allows you to determine the download file name and server address for upgrading the device's software. See "Upgrade" on page 6-13.

Menus

Menu	Description
NetwAccess	Allows you to view and configure network access information (both in-band and out-of-band) for the device. See “Network Access” on page 6-14.
TrapReceiv- ers	Allows you to determine the management stations can receive traps from the device. See “Trap Receivers” on page 6-15.
Validate	Updates the Device Page with its latest information from the IntraSpection Application Server database. See “Validate” on page 6-17.
Statistics	Title for the submenus listed below it; this menu cannot be selected.
Graph	Allows you to view real-time statistical data — in a graph format — on the device or a selected group of VLAN. See “Graph” on page 6-18.
Table	Allows you to view real-time statistical data — in a table format — on the device or a selected group of VLAN. See “Table” on page 6-21.
VlanView	Allows you to view, configure, and manage the 16 groups of VLAN. See “VLAN View” on page 6-22.

VLAN

This menu allows you to name, disable or enable any of the SuperStack II Switch 1000's 16 groups of VLAN.

Table 6-2 describes each field in the VLAN menu.

- △ **Note:** For instructions on using this menu, see “Naming a VLAN Group” on page 5-9, “Disabling a VLAN Group” on page 5-11, or “Viewing Statistics for a VLAN Group” on page 5-12.

Table 6-2 VLAN Menu

Field	Description
WGroupIndex	(Workgroup Index) Read-only field; displays the number of the VLAN group (from 1001 to 1016).
WGroupName	Configurable field; determines a name for the VLAN group. See “Naming a VLAN Group” on page 5-9 for instructions.
UnitID	Read-only field; displays the identity of the unit on which the VLAN group's downlink resides.
DownLinkPortID	Read-only field; displays the identity of the downlink port for the VLAN group.
Status	Configurable field; enables or disables the group of VLAN. See “Disabling a VLAN Group” on page 5-11 for instructions. <input type="checkbox"/> active — enables the group of VLAN. Note: Refer to the SuperStack II Switch 1000's MIB (Management Information Base) for more information on the options available in this field.
DBaseAction	Configurable field; allows you to carry out operations on the VLAN group's address list in the forwarding database. <input type="checkbox"/> FreezeAddrs — makes all addresses in the workgroup permanent.

Address List

This menu displays the SuperStack II Switch 1000's MAC address table.

The MAC address table is a table of node addresses that the device receives on its ports. It uses the information in this table to decide whether a frame should be forwarded or filtered. Each entry consists of the MAC address of the device and an identifier for the port on which it was received.

- ▲ **Important:** The MAC address table holds a maximum of 500 entries.

The SuperStack II Switch 1000 learns entries automatically by listening to and learning the information that is broadcast when a new node logs onto the network. The SuperStack II Switch 1000 checks the source and destination address as packets pass through it and records the information in the table.

- ▲ **Important:** You cannot manually add an entry into the Port Address Table.

Table 6-3 describes each field in the Address List menu.

- Δ **Note:** For instructions on using this menu, see "Managing the Port Address Table" on page 4-15.

Table 6-3 Address List Menu

Field	Description
Index	Read-only field; displays the number of the entry in the Port Address Table (from 1 to 500).
Unit ID	Read-only field; displays the number of the unit in the SuperStack II Switch 1000. Note: This number is always 1.
Port ID	Read-only field; displays the number of the port for which MAC address mapping information is displayed.
Address index	Read-only field; displays the number of the address entry for a port.
Address	Configurable field; determines the MAC address of the network station that is authorized to communicate with the port.

Field	Description
Address Status	<p>Configurable field; determines the status of the MAC address in the Port Address Table.</p> <ul style="list-style-type: none"> <input type="checkbox"/> nonPermanent — the address is not permanent; it is removed if, after a period of time (aging time), the device has not transmitted. NonPermanent entries are removed from the table if the device is reset or a power off/on cycle occurs. <input type="checkbox"/> permanent — the address entry is permanent; it remains in the address table even if the device is reset or a power off/on cycle occurs. <input type="checkbox"/> delete — manually removes the selected address entry from the address table.
Address Priority	<p>Configurable field; determines the priority of the MAC address in the Port Address Table.</p> <ul style="list-style-type: none"> <input type="checkbox"/> normalPriority — the address filters at a normal rate through the device. <input type="checkbox"/> highPriority — the address filters at a faster-than-normal rate through the device.

Identify

This menu allows you to view and configure identification information for the SuperStack II Switch 1000.

Table 6-4 describes each field in the Identify menu.

Δ **Note:** For instructions on using this menu, see “Configuring Identification Information” on page 4-6.

Table 6-4 Identify Menu

Field	Description
Physical Address	Read-only field; displays the device's hardware address.
Object ID	Read-only field; displays the device's SNMP identifying number.
Description	Read-only field; displays a description of the device.
Name	Configurable field; assigns a name to the device. Note: A maximum of 254 characters, including spaces, is allowed.
Location	Configurable field; assigns a physical location to the device. Note: A maximum of 254 characters, including spaces, is allowed.
Contact	Configurable field; assigns a name of the person responsible for the device. Note: A maximum of 254 characters, including spaces, is allowed.
Up Time	Read-only field; displays the amount of time the device has been operational since the last time it was off-line.
Interfaces	Read-only field; displays the number of network interfaces present on the device.

Device

This menu allows you to view general information for the SuperStack II Switch 1000.

Table 6-5 describes each field in the Device menu.

- △ **Note:** For instructions on using this menu, see “Viewing General Device Information” on page 4-9.

Table 6-5 Device Menu

Field	Description
Number of Groups	Read-only field; displays the number of groups the device contains.
Chassis Name	Read-only field; displays the name of the device's chassis. Note: This field always displays LinkSwitch 1000 Sta
ChassisObjid	Read-only field; displays the device's object ID number.
ChassisHWVers	Read-only field; displays the device's hardware version number.

Agent

This menu displays read-only SNMP agent information for the Super-Stack Switch 1000.

Table 6-6 describes each field in the Agent menu.

Δ **Note:** For instructions on using this menu, see “Viewing SNMP Agent Information” on page 4-14.

Table 6-6 Agent Menu

Field	Description
Heartbeat Interval	Read-only field; displays the time, in seconds, between successive heartbeat events sent to the management station. An interval of 0 indicates that no heartbeat events are to be generated. Note: A heartbeat event is an event generated at a regular interval to inform the manager that this device is still operating and can be reached on the network.
PROM SWVer	Read-only field; displays the software version number of the device's SNMP agent.
Restart Count	Read-only field; displays the number of restarts the device has undergone (either power on/off or reset).
Last Restart Type	Read-only field; displays the reason for the last system restart (which may be caused by a management command, a timeout, a power interruption, or system error).
Reset Action	Read-only field; displays the system's reset setting.
Last System Error	Read-only field; displays the last system error experienced by the system.

Slots

This menu allows you to view and configure group information for the SuperStack II Switch 1000. The group information includes details about the switch as if it were a part of a device stack.

Table 6-7 describes each field in the Slots menu.

△ **Note:** For instructions on using this menu, see “Viewing Group Information” on page 4-11.

Table 6-7 Slots Menu

Field	Description
LocationType	<p>Read-only field; displays the types of physical entities (and their locations) that the device can contain.</p> <p>Note: A stack/chassis (such as the SuperStack II Switch 1000) contains a number of physical entities (such as power supplies and cards/units).</p> <p>Each physical entity resides at some location. A stack/chassis can contain a number of types of locations. Each type of location is specialized to a different purpose.</p> <p>There are five types of locations defined:</p> <ul style="list-style-type: none"> <input type="checkbox"/> (1) modular-slot — a location of this type can take a number of different entities. They are general purpose and are often the purpose of the device. <input type="checkbox"/> (2) power-supply-bay — contains a power supply. <input type="checkbox"/> (3) fan-position — holds a fan. <input type="checkbox"/> (4) backplane-position — contains only a backplane. <input type="checkbox"/> (5) stackableUnit-position — a stack has only entities of type stackableUnit.
Location	<p>Read-only field; displays the location within the device.</p> <p>Note: A location is where a physical entity (such as a power supply or a card/unit) resides.</p>
SysObjid	<p>Read-only field; displays the object ID of the entity at this location.</p>

Field	Description
Service Type	<p>Read-only field; displays what kind of entity is present at this location.</p> <ul style="list-style-type: none"> <input type="checkbox"/> (1) unmanaged 802.3 repeater <input type="checkbox"/> (2) IEEE 802.3 repeater <input type="checkbox"/> (3) IEEE 802.5 mau module <input type="checkbox"/> (4) IEEE 802.5 ring builder <input type="checkbox"/> (5) FDDI concentrator <input type="checkbox"/> (6) management module <input type="checkbox"/> (12) standard backplane <input type="checkbox"/> (13) extended backplane <input type="checkbox"/> (14) display panel <input type="checkbox"/> (17) fan <input type="checkbox"/> (18) power supply <input type="checkbox"/> (19) standard bridge <input type="checkbox"/> (20) bridge per port <input type="checkbox"/> (21) terminal server <input type="checkbox"/> (22) remote bridge <input type="checkbox"/> (23) switched Ethernet
Entity Type	<p>Read-only field; in conjunction with Service Type, uniquely identifies the specific physical entity. For example, the Service Type may be "802.3 repeater" while the Entity Type may be "12 port UTP card."</p> <p>Smart 802.3 Repeater:</p> <ul style="list-style-type: none"> <input type="checkbox"/> (1) 4-port RLC coax <input type="checkbox"/> (2) 8-port UTP <input type="checkbox"/> (3) 4-port fiber <input type="checkbox"/> (4) 8-port STP <input type="checkbox"/> (6) 4-port fanout <input type="checkbox"/> (7) 12-port UTP <input type="checkbox"/> (8) 12-port STP <input type="checkbox"/> (9) 12-port secure UTP <input type="checkbox"/> (10) 12-port secure STP <input type="checkbox"/> (11) 6-port fiber <input type="checkbox"/> (12) 4-port coax

Field	Description
Entity Type (continued)	<div data-bbox="426 207 948 581"> <input type="checkbox"/> (32) 6-port resilient fiber <input type="checkbox"/> (65) 12-port UTP, RJ45 connector <input type="checkbox"/> (66) 12-port UTP, RJ45 connector (expandable) <input type="checkbox"/> (67) 13-port UTP, Telco + module <input type="checkbox"/> (68) 24-port TUP, 2xTelco <input type="checkbox"/> (69) 6-port fiber, ST connector (expandable) <input type="checkbox"/> (70) 6-port fiber, SMA connector (expandable) <input type="checkbox"/> (71) 6-port coax (expandable) <input type="checkbox"/> (72) 4-port fanout </div> <div data-bbox="396 602 644 623">IEEE 802.5 Mau Module:</div> <div data-bbox="426 634 809 703"> <input type="checkbox"/> (1) 12-port UTP, RJ-45 connector <input type="checkbox"/> (2) 12-port STP, RJ-45 connector </div> <div data-bbox="396 724 641 745">IEEE 802.5 Ring Builder:</div> <div data-bbox="426 756 936 812"> <input type="checkbox"/> (1) ring builder, STP rin/rout, RJ-45 connectors </div> <div data-bbox="396 833 623 854">Management Module:</div> <div data-bbox="426 865 838 933"> <input type="checkbox"/> (1) standard management module <input type="checkbox"/> (2) enhanced management module </div> <div data-bbox="396 954 609 976">Standard Backplane:</div> <div data-bbox="426 987 713 1015"> <input type="checkbox"/> (1) standard backplane </div> <div data-bbox="396 1036 541 1057">Display Panel:</div> <div data-bbox="426 1068 751 1096"> <input type="checkbox"/> (1) first release front panel </div> <div data-bbox="396 1117 440 1138">Fan:</div> <div data-bbox="426 1149 689 1177"> <input type="checkbox"/> (1) standard fan tray </div> <div data-bbox="396 1198 546 1219">Power Supply:</div> <div data-bbox="426 1230 751 1258"> <input type="checkbox"/> (2) standard power supply </div> <div data-bbox="396 1279 594 1300">Switched Ethernet:</div> <div data-bbox="426 1312 665 1380"> <input type="checkbox"/> (1) headend unit <input type="checkbox"/> (2) expansion unit </div>
HwVersion	Read-only field; displays the major and minor revision level of the entity at this location.

Menus

Field	Description
SwVersion	Read-only field; displays the software version number of the entity at this location if the entity contains a processor. If an entity has no software, the value of this parameter is " none ."
Serviceid	Read-only field; displays the number of the service in the device. This ID can be used to reference the service elsewhere in the MIB.
EntityName	Read-only field; displays the name of the entity at this location.
PowerReq	Read-only field; displays the power consumption requirement of the entity.
NumberofPorts	Read-only field; displays the number of ports on the entity at this location.
LampTest	Configurable field; displays the status of the test that can be performed on entities contained in the rack.
EntityState	<p>Read-only field; displays the state of the entity in the stack.</p> <p>Each entity in the stack/chassis has a basic state independent of what function that entity performs within the stack/chassis (initializing, operational, failure). If the agent cannot determine the state of a particular entity, the value is unknown.</p>
Action	Configurable field; resets the specified unitcard.
POSTtype	<p>Configurable field; displays the type of power-on self tests which an entity carries out during power-up.</p> <ul style="list-style-type: none"> <input type="checkbox"/> normalPOST — a basic confidence check of the entity (5 seconds) is performed. <input type="checkbox"/> extendedPOST — a comprehensive set of tests (3 minutes) are performed.
PlugInType	<p>Read-only field; displays the type of plug-in module (if any) attached to this entity.</p> <p>If a plug-in module can never be attached to this entity, the value notApplicable is displayed.</p>

Upgrade

This menu allows you to set the download file name and server address for upgrading the device’s software.

Table 6-8 describes each field in the Upgrade menu.

△ **Note:** For instructions on using this menu, see “Performing a Software Upgrade” on page 4-7.

Table 6-8 Upgrade Menu

Field	Description
Load Status	Read-only field; displays the status of the last software download. <input type="checkbox"/> success — software download completed successfully.
SW Version	Read-only field; displays the device’s current software version number.
HW Version	Read-only field; displays the device’s current hardware version number.
Download File-name	Configurable field; sets the file name and network path of the software image file.
Server Address	Configurable field; sets the boot server’s IP address.

Network Access

This menu allows you to view and configure network access information (both in-band and out-of-band) for the SuperStack II Switch 1000.

Table 6-9 describes each field in the Network Access menu.

△ **Note:** For instructions on using this menu, see “Configuring Network Access Parameters” on page 4-5.

Table 6-9 Network Access Menu

Field	Description
IP Address	Configurable field; sets the device's in-band IP address.
Subnet Mask	Configurable field; sets the device's in-band subnet address. Note: A subnet mask, in the IP addressing scheme, is a group of selected bits whose values serve to identify a subnetwork. All members of the subnetwork share the mask value.
Router Address	Configurable field; sets the address of the default gateway to which the device belongs.
Bootp Mode	Configurable field; sets the device's method for retrieving an IP address. <input type="checkbox"/> enabled — sets the device to request an IP address from a BootP server. <input type="checkbox"/> disabled — sets the device to NOT request an IP address from a BootP server; the IP address must be configured manually via the device's console port.
IP Address	Configurable field; sets the device's out-of-band IP address.
Subnet Mask	Configurable field; sets the device's out-of-band subnet address.

Trap Receivers

This menu allows you to determine the management stations that will receive traps from the SuperStack II Switch 1000.

▲ **Important:** Refer to the SuperStack II Switch 1000's User Guide for instructions on setting traps.

△ **Note:** For instructions on using this menu, see "Managing Trap Receivers" on page 4-12.

Table 6-10 describes each field in the Trap Receivers menu.

Table 6-10 Trap Receivers Menu

Field	Description
Trap index	Read-only field; displays the number of the trap receiver entry.
Status	<p>Configurable field; displays the status of the trap receiving station's entry.</p> <ul style="list-style-type: none"> <input type="checkbox"/> active — trap receiving station's entry is active. <input type="checkbox"/> notInService — trap receiving station's entry is not active (deletes the trap receiving station when selected). <p>Note: Refer to the SuperStack II Switch 1000's MIB for information on the other options available in this field.</p>
Receiver Address	Configurable field; displays the IP address of the management station that can receive traps.
Community String	Configurable field; displays the write community string of the receiving management station.
Category	<p>Configurable field; determines which traps are to be received by the trap receiving station.</p> <p>▲ Important: This is a 32-bit mask field.</p> <ul style="list-style-type: none"> <input type="checkbox"/> FF:FF:FF:FF — enables all traps <input type="checkbox"/> '00000001'h — high priority configuration traps. <input type="checkbox"/> '00000002'h — low priority configuration traps <input type="checkbox"/> '00000004'h — high priority security traps <input type="checkbox"/> '00000008'h — low priority security traps <input type="checkbox"/> '00000010'h — alarms and polling traps

Menus

Field	Description
Category (continued)	<ul style="list-style-type: none"><input type="checkbox"/> '00000020'h — regular heartbeat traps<input type="checkbox"/> '00000040'h — end station table traps<input type="checkbox"/> '00000080'h — reserved<input type="checkbox"/> '00000100'h — physical entity traps<input type="checkbox"/> '00000200'h — facility traps<input type="checkbox"/> '00000400'h — service related traps
Protocol	Read-only field; displays what protocol is being used to send the trap (IP or IPX).
Throttle Interval	Configurable field; determines the time interval for the device to send traps. Note: This field is in milliseconds.

Validate

This menu updates the SuperStack II Switch 1000 Device Page with the latest information from the IntraSpection Application Server database.

Occasionally, these files should be updated to ensure that you are viewing the device's latest information.

When this option is selected, you are returned to the IntraSpection map page.

- △ **Note:** For instructions on using this menu, see “Updating the Device Page” on page 4-8.

Graph

This menu allows you to view real-time statistical information — in a graph format — on the SuperStack II Switch 1000, one of its VLAN groups, or one of its ports.

Table 6-11 describes each field in the Graph menu.

- △ **Note:** For instructions on using this menu, see “Viewing Statistics” on page 4-18 or “Viewing Statistics for a VLAN Group” on page 5-12.

Table 6-11 Graph Menu

Field	Description
Seconds	Drop-down menu; specifies the amount of time (in seconds) that the device is polled for information.
Statistics	<p>Drop-down menu; determines the object for which statistics are gathered.</p> <p>Device Statistics</p> <ul style="list-style-type: none"><input type="checkbox"/> Readable Frames — displays the total number of good or readable frames (frames without error).<input type="checkbox"/> Unicast Frames — displays the number of frames seen by the card that is addressed to a unicast (non-card) address.<input type="checkbox"/> Broadcast Frames — displays the total number of frames that were successfully received and were directed to the broadcast group address.<input type="checkbox"/> FCS Errors — displays the number of frames that failed Cyclic Redundancy Check (CRC).<input type="checkbox"/> Alignment Errors — displays the number of frames that were an integral number of octets in length and did not pass the FCS check.<input type="checkbox"/> FramesTooLong — displays the number of frames that exceeded 1,518 bytes.<input type="checkbox"/> Short Events — displays the number of data bursts (data less than 10 bytes in length).<input type="checkbox"/> Runts — displays the number of frames shorter than 64 bytes.<input type="checkbox"/> TX Collision — displays the total number of collisions that occurred when transmitting from the device.

Field	Description
Statistics (continued)	<p>Group Statistics</p> <ul style="list-style-type: none"> <input type="checkbox"/> Readable Frames — displays the total number of good or readable frames (frames without error). <input type="checkbox"/> Unicast Frames — displays the number of frames seen by the card that is addressed to a unicast (non-card) address. <input type="checkbox"/> Broadcast Frames — displays the total number of frames that were successfully received and were directed to the broadcast group address. <input type="checkbox"/> FCS Errors — displays the number of frames that failed Cyclic Redundancy Check (CRC). <input type="checkbox"/> Alignment Errors — displays the number of frames that were an integral number of octets in length and did not pass the FCS check. <input type="checkbox"/> FramesTooLong — displays the number of frames that exceeded 1,518 bytes. <input type="checkbox"/> Short Events — displays the number of data bursts, (data is less than 10 bytes in length). <input type="checkbox"/> Runts — displays the number of frames shorter than 64 bytes. <input type="checkbox"/> Auto Partitions — displays the number of times the device has automatically partitioned a port. <input type="checkbox"/> Total Errors — displays the total number of errors which have occurred on all ports on all groups in this device. <p>Port Statistics</p> <ul style="list-style-type: none"> <input type="checkbox"/> Readable Frames — displays the total number of good or readable frames (frames without error). <input type="checkbox"/> Transmitted Frames — displays the number of frames (including error frames) which were transmitted by ports in this workgroup. <input type="checkbox"/> Filtered Frames — displays the total number of frames within a workgroup that were filtered because the destination station was on the same segment (port) as the source station.

Field	Description
Statistics (continued)	<p>Port Statistics (continued)</p> <ul style="list-style-type: none"><input type="checkbox"/> Forwarded Frames — displays the total number of frames that were forwarded successfully by ports in this workgroup to their destinations.<input type="checkbox"/> RX Congestion — displays the number of frames that were dropped due to congestion (lack of buffer resource) on the receive side of ports in this workgroup.<input type="checkbox"/> TX Congestion — displays the number of frames that were dropped due to congestion (lack of buffer resource) on the transmit side of ports in this workgroup.<input type="checkbox"/> TX Multicast — displays the number of multi-cast/broadcast frames that were transmitted by ports in this workgroup.
Average per second	Displays the average number of occurrences since opening or resetting the screen.
Reset Statistics	Button; resets the counters to zero.
Peak per second	Displays the largest number of occurrences since opening or resetting the screen.
Count-per-second display	<p>Displays the amount of counts per second displayed on the graph.</p> <p>Note: To control the count-per-second display, use the scroll bar on the right side of the graph (scroll up to increase the count-per-second; scroll down to decrease it).</p>

Table

This menu allows you to view real-time statistical information, in table format, on the SuperStack II Switch 1000, one of its VLAN groups, or one of its ports.

Table 6-12 describes each field in the Table menu.

- △ **Note:** For instructions on using this menu, see “Viewing Statistics” on page 4-18 or “Viewing Statistics for a VLAN Group” on page 5-12.

Table 6-12 Table Menu

Field	Description
Sampling Interval	Configurable field; allows you to set the amount of time (in seconds) that the device is polled for information.
Reset	Button; resets the counters to zero.
Object	Read-only fields; displays the objects for which statistics are gathered. For a description of each object, see “Statistics” on page 6-18.
Curr	(Current) Read-only field; displays the number of counter occurrences each second.
Peak	Read-only field; displays the largest number of counter occurrences since opening or resetting the screen.
Avg	(Average) Read-only field; displays the average number of counter occurrences since opening or resetting the screen.
Total	Read-only field; displays the total number of counter occurrences since opening or resetting the screen.

VLAN View

This menu allows you to view, configure, and manage the 16 groups of VLAN that are supported by the SuperStack II Switch 1000.

Table 6-13 describes each field in the VLAN View menu.

Δ **Note:** For instructions on using this menu, see Chapter 5, “VLAN.”

Table 6-13 VLAN View Menu

Field	Description
Group Number/ Port Number	Buttons; represent each of the device's ports.
Vlan1 – Vlan 16	Buttons; represent each of the device's 16 groups of VLAN.
Menu Items	<p>Menus; allow you to manage each configured group of VLAN (groups that contain at least one port) or the entire device. These menus are identical to those on the Device Page.</p> <ul style="list-style-type: none">□ Configuration<ul style="list-style-type: none">□ VLAN — allows you to name, disable or enable the selected VLAN group. See “VLAN” on page 6-3.□ Address List — allows you to view the last 500 IP addresses that the device received and allows you to restrict access to each port. See “Address List” on page 6-4.□ Identify — allows you to configure identification information for the device. See “Identify” on page 6-6.□ Device — allows you to view general information on the device. See “Device” on page 6-7.□ Agent — allows you to view SNMP agent information on the device. See “Agent” on page 6-8.□ Slots — allows you to view and configure the device's group information. See “Slots” on page 6-9.

Field	Description
	<div><div><input type="checkbox"/></div><div>Setup</div></div> <div><div><input type="checkbox"/></div><div>Upgrade — allows you to set the download file name and server address for upgrading the device's software. See "Upgrade" on page 6-13.</div></div> <div><div><input type="checkbox"/></div><div>NetwAccess — allows you to view and configure network access information for the device. See "Network Access" on page 6-14.</div></div> <div><div><input type="checkbox"/></div><div>TrapReceivers — allows you to determine which management stations can receive traps from the device. See "Trap Receivers" on page 6-15.</div></div> <div><div><input type="checkbox"/></div><div>Validate — updates the Device Page with the latest information stored in the IntraSpection Application Server database. See "Validate" on page 6-17.</div></div> <div><div><input type="checkbox"/></div><div>Statistics</div></div> <div><div><input type="checkbox"/></div><div>Table — allows you to view real-time statistical data — in a table format — on the selected VLAN group. See "Table" on page 6-21.</div></div> <div><div><input type="checkbox"/></div><div>Graph — allows you to view real-time statistical data — in a graph format — on the selected VLAN group. See "Graph" on page 6-18.</div></div>



Technical Support

Contacting Asanté Technical Support

To contact Asanté Technical Support:

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Bulletin Board Service (BBS)	(408) 432-1416
ARA BBS (guest log in)	(408) 894-0765
AppleLink mail/BBS	ASANTE
FTP Archive	ftp.asante.com

Technical Support Hours

6:00 A.M. to 5:00 P.M. Pacific Standard Time USA, Monday – Friday.

.

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